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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/816,933	03/23/2001	Christian Siemers	GR 98 P 8110 P 6157	
24131	7590 09/29/2005		EXAMINER	
LERNER AT P O BOX 248	ND GREENBERG, PA		SIDDIQI, MOI	HAMMAD A
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
	•		2154	

DATE MAILED: 09/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary  Examiner Mohammad A. Siddiqi  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			·					
### Common Summary  ### Carminer		Application No.	Applicant(s)					
Mohammad A. Siddiq:   2154	Office Action Commence	09/816,933	SIEMERS, CHRISTIAN					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Eatherious of them may be available under the provision of 37 CPT 1-13(e). In the event, however, may a reply be stimely filed  If NO period for reply is appelled above, the maximum statutory parties will apply and will expire SN (6) MONTHS from the malling date of this communication.  Failure for growth within the sid or certified period for reply will, by statuts, capetion apply and will expire SN (6) MONTHS from the malling date of this communication.  Failure for growth within the side of extended period for reply will, by statuts, capetion apply and will expire SN (6) MONTHS from the malling date of this communication.  Failure for growth within the side of extended period for reply will, by statuts, capetion apply and will expire SN (6) MONTHS from the malling date of this communication.  Failure for growth within the control of the maximum statutory parties will be somewhat the communication of the maximum statutory parties will be somewhat the malling of the communication of the maximum statutory parties will be somewhat the malling of the somewhat the malling of the somewhat the malling of the somewhat the somewhat the malling of	Office Action Summary	Examiner	Art Unit					
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extansions of time may be available under the provision of 3° FR1 1:306, in no event, however, may a reply be timely filled after GX (6) MONTHS from the mailing date of this communication.  Failsh to require with the 10 to the mailing date of this communication, over it is communication.  Failsh to require with the 10 to the mailing date of this communication.  Failsh to require the mailing date of this communication, over if timely filed, may reduce any seamed platent the adjustment. See 37 CFR 1.704(s).  Status  1) ■ Responsive to communication(s) filed on 19 July 2005  2a) □ This action is FINAL.  2b) ■ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ○ Claim(s) 1-32 is/are pending in the application.  4a) Of the above claim(s) 39-76 is/are withdrawn from consideration.  5) □ Claim(s) 1-38 is/are allowed.  6) ○ Claim(s) 1-38 is/are rejected.  7) □ Claim(s) 1-38 is/are rejected to.  8) □ Claim(s) 1-38 is/are rejected to.  8) □ Claim(s) 1-38 is/are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  Application Papers  9) □ The drawing(s) filed on 1- is/are: a) 1- accepted or b) 1- objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have								
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	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P						

#### **DETAILED ACTION**

Claims 1- 38 are presented for examination. Claims 39-76 are
 withdrawn from examination. Claims 77 and 78 have been cancelled. Claims
 and 20 have been amended.

#### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/19/2005 has been entered.

## Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Regarding claims 1 and 20, the phrase "or the like" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "or the like"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-7, 10-11, 13-26, 29-30, 32-38, 77 and 78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore et al. (6,598,148) (hereinafter Moore) in view of Freitag et al. (6,237,054) (hereinafter Freitag).
- 7. As per claims 1 and 20, Moore discloses a program-controlled unit (see abstract), comprising: an intelligent core configured to process instructions to be executed (fig 1-8, abstract, col 4, lines 1-30);

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a plurality of units selected from the group consisting of internal peripheral units disposed inside the program-controlled unit (fig 1-8, abstract, col 4, lines 1-30), external peripheral units exterior to the program-controlled unit (fig 1-8, abstract, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-47), and one or more memory devices (fig 1-8, abstract, col 4, lines 1-45, col 6, lines 26-48, lines 1-30, col 8, lines 1-61); and a structurable hardware unit selectively forming an application-specifically configurable intelligent interface (col 14, lines 62-67 and col 15, lines 1-20), for respectively connecting said intelligent core (fig 1-8, abstract, col 13, lines 1-10) and said units (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61), including at least one of an interface (external 32 bit bus, col 9, lines 35-41) connection between said intelligent core and said internal peripheral units (fig 1-8, abstract, col 4, lines 1-30), an interface connection (external 32 bit bus, col 9, lines 35-41) between said intelligent core and said external peripheral units (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61), an interface connection (external 32 bit bus, col 9, lines 35-41) between said intelligent core and said memory devices (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61), and an interface connection (external 32 bit bus, col 9, lines 35-41) between said Application/Control Number: 09/816,933

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plurality of units (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61); and

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said structurable hardware unit (abstract, fig 1-8, col 4, lines 1-11) being configured so that it can be configured like a configuration of field-programmable logic arrangements (lines 50-67; col 11, lines 16-36, col 7). Moore explicitly does not disclose hardware unit can be configured like PLAs, GLAs, PLDs, FPGAs and the like and to evaluate and process data and/or signal received. However, Freitag discloses hardware unit can be configured like PLAs, GLAs, PLDs, FPGAs and the like and to evaluate and process data and/or signal received (col 3, lines 44-67; col 4 lines 1-41; col 8; lines 19-50). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Freitag and Moore. The motivation would have been to implement programmable logic circuitry to implement one of many possible communication protocol.

8. As per claims 2 and 21, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the structurable hardware unit is disposed in circuit terms between said intelligent core and said plurality of units (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61).

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9. As per claims 3 and 22, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the structurable hardware unit is connected to a multiplicity of potential data and signal sources and data and signal destinations (fig 4, col 21-32), and wherein a plurality of multiplexers are connected to said structurable hardware unit for selecting current data and signal sources and current data and signal destinations (fig 4 and 12, col 4, lines 21-32).

- 10. As per claims 4 and 23, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the data and signal sources and the data and signal destinations comprise units selected from the group of units consisting of said intelligent core, said peripheral units, said memory devices and portions of said structurable hardware unit (fig 1-12, abstract, col 4, lines 21-32, col 12, lines 6-45).
- 11. As per claims 5 and 24, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses a structuring of said structurable hardware unit selectively results in an alteration of given data paths and in a configuration of logic elements (idle, col 5, lines 15-20).

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12. As per claims 6 and 25, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses a said logic block unit enables devices to be connected via said structurable hardware unit to cooperate as desired (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61).

- 13. As per claims 7 and 26, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the clock generation unit and said logic block unit each contain configurable elements (col 8, lines 1-5, col 14, lines 37-38).
- 14. As per claims 10 and 29, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the logic block unit comprises at least one logic block subdivided at least partly into individually configurable sub-blocks with predetermined tasks (abstract, fig 1-12, col 9, lines 51-53, col 10, lines 1-10).
- 15. As per claims 11 and 30, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses—one of sub-blocks is configured as a processing device enabled for one of arithmetic and logical processing of data input to said sub-block (col 4, lines 1-11).

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16. As per claims 13 and 32, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses one of sub-blocks is configured as an address calculation device for calculating source and destination addresses (fig 1-8, abstract, col 13, lines 1-10, col 4, col 6, lines 26-48, lines 1-30, col 8, lines 1-61).

- 17. As per claims 14 and 33, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses one of sub-blocks is configured as an instruction injection device for injecting instructions into an instruction pipeline of said intelligent core (col 17, lines 15-47).
- 18. As per claims 15 and 34, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the structurable hardware unit is configurable with devices selected from the group consisting of fuses and anti-fuses (fig 6, EPROM).
- 19. As per claims 16 and 35, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the structurable hardware unit is reversibly configurable (abstract, col 17, lines 2-5,).

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20. As per claims 17 and 36, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the structurable hardware unit is configurable based on data representing a desired configuration, and the data are stored in memory devices insertible into a memory or I/O area which is addressible by said intelligent core (fig 1-8, abstract, col 4, lines 1-61).

- 21. As per claims 18 and 37, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses a configuration of structurable hardware unit is enabled only at predetermined times (fig 1-8, abstract, col 4, lines 1-61).
- 22. As per claims 19 and 38, claims are rejected for the same reasons as claim 1, above. In addition, Moore discloses the program-controlled configuration of structurable hardware unit is enabled at any time (fig 1-8, abstract, col 4, lines 1-61).
- 23. Claims 8, 9, 12, 27, 28, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore et al. (6,598,148) (hereinafter Moore) in view of Freitag et al. (6,237,054) (hereinafter Freitag) as applied to claims 1

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and 20 above, and further in view of Takahashi et al. (5,825,878) (hereinafter Takahashi).

- 24. As per claims 8 and 27, Moore discloses the clock generation unit is formed at least in part by a device selected from the group consisting of a DNF logic configuration, an array, a multiplexer-based logic variant, and a structurable logic configuration (fig 4 and 12, col 29, lines 30-50, col 12, lines 19-40). Moore and Freitag are silent about NAND. However, Takahashi discloses NAND (fig 6, col 10, lines 36-38). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Takahashi with Moore and Freitag. The Motivation would have been to provide a high performance microprocessor that can be directly connected to memory controller.
- 25. As per claims 9 and 28, the claim is rejected for same reasons as claim 8, above. in addition, Takahashi discloses NAND (fig 6, col 10, lines 36-38).
- 26. As per claims 12 and 31, the claim is rejected for same reasons as claim 8, above. In addition, Takahashi discloses one of sub-blocks is configured as a state machine for central sequence control (fig 4, col 6, lines 52-55).

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## Response to Arguments

27. Applicant's arguments with respect to claims 1-38 have been considered but are moot in view of the new ground(s) of rejection.

28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad A. Siddiqi whose telephone number is (571) 272-3976. The examiner can normally be reached on Monday -Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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